

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Group Art Unit Unknown

In re

Patent Application of

Allen M. Tereba, et al.

Application No. Unknown

Confirmation No.: Unknown

Filed: October 27, 2003

Examiner: Unknown

“SIMULTANEOUS ISOLATION AND  
QUANTITATION OF DNA”

I, Leslie Rector, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date of my signature.

Leslie Rector  
Signature

October 27, 2003  
Date of Signature

INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 CFR §1.97(b)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and/or PTO/SB/08B, copies of which are not being provided herewith because, pursuant to 37 C.F.R. §1.98(d), copies were previously submitted to, or cited by, the office in U.S. Serial No. 09/377,986, filed August 20, 1999, and U.S. Serial No. 08/785,097, filed January 21, 1997 which are being relied upon for an earlier filing date under 35 U.S.C. §120.

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,

Grady J. Frenchick  
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Reg. No. 29,018

File No. 016026-9043 DIV  
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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 6

**Complete if Known**

Application Number	Unknown
Filing Date	
First Named Inventor	Allen M. Tereba
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	016026-9043 DIV

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US- 4,233,169	11/11/1980	Beall et al.	All
	AB	US- 4,297,337	10/27/1981	Mansfield et al.	All
	AC	US- 4,395,271	07/26/1983	Beall et al.	All
	AD	US- 4,672,040	07/09/1987	Josephson	All
	AE	US- 4,683,202	07/28/1987	Mullis	All
	AF	US- 4,695,393	09/22/1987	Whitehead et al.	All
	AG	US- 4,699,717	10/13/1987	Riesner et al.	All
	AH	US- 4,767,670	08/30/1988	Cox et al.	All
	AI	US- 5,057,426	10/15/1991	Henco et al.	All
	AJ	US- 5,075,430	12/24/1991	Little	All
	AK	US- 5,076,950	12/31/1991	Ullman et al.	All
	AL	US- 5,155,018	10/13/1992	Gillespie et al.	All
	AM	US- 5,234,809	08/10/1993	Boom et al.	All
	AN	US- 5,316,680	05/31/1994	Frechet et al.	All
	AO	US- 5,346,994	09/13/1994	Chomczynski	All
	AP	US- 5,389,449	02/14/1995	Afeyam et al.	All
	AQ	US- 5,395,498	03/07/1995	Gombinsky et al.	All
	AR	US- 5,482,834	01/09/1996	Gillespie	All
	AS	US- 5,523,231	06/04/1996	Reeve	All

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	AT	WO 95/06652	03/09/1995	Promega Corp	All	
	AU	WO 97/29825	08/21/1997	Pharmacia Bio	All	
	AV	WO 98/31461	07/23/1998	W.R. Grace	All	
	AW	WO 98/31840	07/23/1998	Promega Corp.	All	
	AX	CA 2,223,821	06/06/1996	Boehringer Mann	All	
	AY	DE 4307262A1	09/08/1994	C. Bergemann	All	

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Considered

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Application Number	Unknown
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First Named Inventor	Allen M. Tereba
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	016026-9043 DIV

Sheet 2 of 6

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		Number-Kind Code <sup>2</sup> (if known)			
	AZ	US- 5,582,988	12/10/1996	Backus et al.	
	BA	US- 5,610,274	03/11/1997	Wong	
	BB	US- 5,652,348	07/29/1997	Burton et al.	
	BC	US- 5,658,548	08/19/1997	Padhye et al.	
	BD	US- 5,660,984	08/26/1997	Davis et al.	
	BE	US- 5,681,946	10/28/1997	Reeve	
	BF	US- 5,728,822	03/17/1998	Macfarlane	
	BG	US- 5,734,020	03/31/1998	Wong	
	BH	US- 5,747,663	05/05/1998	Colpan et al.	
	BI	US- 5,783,686	07/21/1998	Gonzalez	
	BJ	US- 5,945,525	08/31/1999	Uematsu et al.	
	BK	US- 5,990,301	11/23/1999	Colpan et al.	
	BL	US- 6,027,945	02/22/2000	Smith et al.	
	BM	US- 6,410,725	06/25/2002	Scholl et al.	
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	BN	JP10-3116696	12/02/1998	Toyo Boseki KK		
	BO	JP 09-327290	12/22/1997	Toyo Boseki KK		
	BP	JP-09-327291	12/22/1997	Toyo Boseki KK		

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				Applicant Number	Unknown
				Filing Date	
				First Named Inventor	Allen M. Tereba
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	3	of	6	Attorney Docket Number	016026-9043 DIV

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BQ	AUSUBEL, Frederic M., et al., Eds., "Current protocols in molecular biology," Chap. 2 (DNA) and Chap. 4 (RNA), Wiley-Interscience, NY (1987).	
	BR	BISCHOFF, Rainer, et al., "Chemically synthesized hydrophobic anion-exchange....", J. Chromatog., 270: 117-126 (1983).	
	BS	BISCHOFF, Rainer, et al., "Nucleic acid resolution by mixed-mode chromatography", J. Chromatog., 296:329-337 (1984).	
	BT	BOOM, R., et al., "Rapid and simple method for purification of nucleic acids," J. Clin. Microbiol. 28:3, pp. 495-503 (Mar.1990).	
	BU	CHEN, Carton W., et al., "Recovery of DNA segments from Agarose gels," Anal. Biochem., 101, pp. 339-341 (1980).	
	BV	CROWTHER, J.B., et al., "High-performance liquid chromatographic separation of oligonucleotides....," J. Chrom., 619-628 (1983).	
	BW	EDWARDSON, et al., "Separation and purification of oligonucleotides using a new bonded-phase packing material," J. Chromatog. 545:79-89 (1991).	
	BX	FLOYD, et al., "Mixed-mode hydrophobic ion exchange for the separation of oligonucleotides and DNA fragments using HPLC," Anal. Biochem. 154:570-577 (1986).	
	BY	GJERDE et al., "Ion chromatography," Ch. 3, Dr. Alfred Hothig Verlag Heidelberg, 2d Ed. (1987).	
	BZ	GOLDSBOROUGH et al., "High purity plasmid DNA from anion exchange chromatography," Focus, V. 20:3 (1998).	

Examiner Signature		Date Considered	
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Sheet	4	of	6	Attorney Docket Number	016026-9043 DIV

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	CA	GREENSPOON, S, et al., "Robotic extraction of mock sexual assault samples using the Biomek® 2000 and the DNA IQ™ System," Profiles in DNA, V. 5:1, (Feb. 2002).	
	CB	ISHIDA, et al., "Methods and kit for extraction of RNA," Database CAS on-line, AN128:86151, Jp Kokai Tokkyo, abstract, 6 pp. (12/22/1997).	
	CC	ISHIDA, et al., "Methods and kit for extraction of RNA," Database CAS on-line, AN128:86152, Jp Kokai Tokkyo, abstract, 6 pp. (12/22/1997).	
	CD	JOST, et al., "Application of a weakly basic dimethylamino-modified silica ion exchanger to the separation of oligonucleotides", J. Chromatog. 185, 403-412 (1979).	
	CE	KIMPTON, C.P., "Validation of highly discriminating multiplex short tandem repeat amplification systems for individual ID," Electrophoresis, 17:;1283-1293 (1996).	
	CF	KIRK-OTHMER, "Encyclopedia of chemical technology," V. 6, 4th ed., Mary Howe-Grant, ed., John Wiley & Sons, pub., pp. 773-775 (1993).	
	CG	KIRK-OTHMER, "Encyclopedia of chemical technology," V. 21, 4th ed., pp. 1021-1022 (1997).	
	CH	KLEIBER, et al., "Magnetic particles and their use for isolation of biological materials," Database CAS on-line AN 126 86772, Ger. Offen. 9 pp, abstract (12/12/1996).	
	CI	LIFE TECHNOLOGIES, "Aces 2.0+ Human DNA quantitation system," GIBCO BRL Products & Ref. Guide, pp. 19-28 (1997/1998) (www.order.lifetech.com).	
	CJ	MAA, et al., "Rapid high-performance liquid chromatopography of nucleic acids with polystyrene-based micropellicular anion exchangers," J. Chromatog., 508:61-73 (1990).	

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Sheet	5	of	6	Attorney Docket Number	016026-9043 DIV

NON PATENT LITERATURE DOCUMENTS			
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	CK	MACHEREY-NAGEL, homepage on the Internet as of 6/12/98, at <a href="http://www.macherey-nagel.com">http://www.macherey-nagel.com</a> .	
	CL	MARKO, et al., Anal. Biochem. 121, pp. 382-387 (1982).	
	CM	MATSUBARA, et al. "Dried blood spot on filter paper as a source of mRNA," Nucleic Acids Research, V. 20:8, 998 (1992).	
	CN	MATSUBARA, et al., "Wizard Minipreps DNA Purification Systems," Promega, pp. 1-4 (Dec 1994).	
	CO	McLAUGHLIN, L., "Mixed-Mode chromatography of nucleic acids", Chem Rev., 89: 309-319 (1989).	
	CP	NORTHROP et al., "Preparation and evaluation of a bimodal size-exclusion chromatography column...", Anal. Chem., 63:1350-1354 (1991).	
	CQ	PROMEGA CORP., "Wizard® Plus Series 9600™ DNA Purification System, Technical Bulletin No. 202 (9/98).	
	CR	PROMEGA CORP., "Wizard® Plus SV Minipreps DNA Purification System," Technical Bulletin No. 225 (9/99).	
	CS	PROMEGA CORP., "Wizard® PureFecton Plasmid DNA Purification System," Technical Bulletin No. 259, (9/99).	
	CT	PROMEGA CORP., "DNA IQ™ System, Small sample casework protocol," Technical Bulletin No. 296, (revised 6/02).	

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	CU	PROMEGA CORP., "DNA IQ™, System-database protocol," Technical Bulletin No. 297, (revised 6/02).	
	CV	QuantiBlot Human DNA Quantitation Systems, PE Applied Biosystems, pp. 1-5 (2/5/96). ( <a href="http://www.pebio.com/fo/773503/773503.html">http://www.pebio.com/fo/773503/773503.html</a> ).	
	CW	R&D 100 AWARDS, a brief history of the, <a href="http://www.rdmag.com/rd100/100win.htm">http://www.rdmag.com/rd100/100win.htm</a>	
	CX	SAMBROOK et al., "Molecular Cloning a Laboratory Manual," 2nd ed. pp. 1.25-1.28 (1989).	
	CY	SPARKES, R., et al., "The validation of a 7-locus multiplex STR test for use in forensic casework," Int J Legal Med, 109: 195-204 (1996).	
	CZ	TEREBA, A., et al., "Simultaneous Purification and Quantitation of DNA from Liquid Blood and Bloodstains," Submitted on 3/1/1999 to the Int'l Assoc. of Forensic Sci. (IAFS) M	
	DA	UEMATSU, et al., "Magnetic carriers for the separation of nucleic acids...", Jp Kokai Tokkyo, Database CAS online, AN 126:18277, 9 pp. (1/21/1997), abstract.	
	DB	VOGELSTEIN, B. et al., Proc. Natl. Acad. Sci. (USA) 76, pp. 615-619 (1979).	
	DC	WATERBORG et al., "Efficient large-scale purification of restriction fragments by solute-displacement ion-exchange HPLC", Nucleic Acids Res., V. 21:12, 2913-2929 (1993).	
	DD	WIRTH, Mary, et al., "Mixed Self-Assembled Monolayers in Chemical Separation," Science, 275, pp. 44-47 (03 Jan 1997).	

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